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By: Mark M. P.

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DOCKET No.: 5525-0015.20

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Stephen C. Macevicz

SERIAL No.: 08/872,446

FILED: June 10, 1997

FOR: DNA Sequencing by Parallel Oligonucleotide Extensions

EXAMINER: E. Whisenant

ART UNIT: 1634

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AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office action mailed August 3, 1998,
please amend the application as follows.

In the Specification

On page 4, line 32, insert the following text:

--The invention also includes an oligonucleotide probe of the formula: HO-(3')-(B)_j(5')-OP(=O)(O-)NH-(B)_k-Bt* wherein B is a nucleotide or an analog thereof; j is in the range of from 1 to 12; k is in the range of from 0 to 12, such that the sum of j and k is less than or equal to 12; and Bt* is a labeled, non-extendable chain-terminating moiety.

In another aspect, the invention includes an oligonucleotide selected from OP(=O)(O-)O-(5')(B)sRRRR(B)wBt* and OP(=O)(O-)O-(5')(B)sRRRR(B)w(3')OP(=O)(O-)O, wherein B is a deoxyribonucleotide or an analog thereof; R is a ribonucleotide; s is in the range of from 1 to 8; w is in the range of from 0 to 8, such that the sum of s and w is less than or equal to 8; and Bt* is a labeled, non-extendable chain-terminating moiety.--

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